

~~ABSTRACT~~

The present invention provides a novel transcriptional factor GCX-1, which is specific to reproductive organs and may play significant roles in the hypothalamo-pituitary-gonadal axis.

The inventors isolated a novel gene, GCX-1 (SEQ ID NO: 2), which is expressed predominantly in the ovary, from a cDNA library of rat ovarian granulosa cells. Examination of abnormality in the gene or gene products (SEQ ID NO: 1) and development of medical agents effective to the transcriptional activator domain of the gene could contribute to the pathological inspection and the therapy of the diseases, such as the sterility disease, polycystic ovary syndrome, endometriosis, precocious puberty, osteoporosis and others, based on the abnormality of reproductive organs.